

## PATENT COOPERATION TREATY

RECORDS	<input checked="" type="checkbox"/>	SEARCHED
25 OCT 2002		
PCT		
PARTNER	ACTIONER	

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

MILES, John, S.  
Eric Potter Clarkson  
Park View House  
58 The Ropewalk  
Nottingham NG1 5DD  
United Kingdom  
United Kingdom

Date of mailing (day/month/year)
17 October 2002 (17.10.02)

Applicant's or agent's file reference ICOY / P26293PC		<b>IMPORTANT NOTICE</b>	
International application No. PCT/GB02/01559	International filing date (day/month/year) 02 April 2002 (02.04.02)	Priority date (day/month/year) 03 April 2001 (03.04.01)	
Applicant IMPERIAL COLLEGE INNOVATIONS LIMITED et al			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:  
KP,KR,US

In accordance with Rule 47.1(o), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AG,AL,AM,AP,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CA,CH,CN,CO,CR,CU,CZ,DE,DK,DM,DZ,EA,EC,  
EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,  
MD,MG,MK,MN,MW,MX,MZ,NO,NZ,OA,PH,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,  
UG,UZ,VN,YU,ZA,ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 48.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 17 October 2002 (17.10.02) under No. WO 02/081502

4. TIME LIMITS for filing a demand for international preliminary examination and for entry into national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of the designated Office. For further details, see PCT Gazette No.44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a demand for international preliminary examination, see the PCT Applicant's Guide, Volume IV, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II.)

It is the applicant's sole responsibility to monitor all these limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  J. Zahra
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.91.11

**PCT****REQUEST**

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date.

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum) ICOY / P26293PC

Box No. I <b>TITLE OF INVENTION</b> METHODS OF CRYSTAL OPTIMISATION		
Box No. II <b>APPLICANT</b>		
<p>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</p> <p>Imperial College Innovations Limited Sherfield Building Imperial College London SW7 2AZ United Kingdom</p>		<input type="checkbox"/> This person is also inventor.  <input type="text"/> Telephone No.  <input type="text"/> Facsimile No.  <input type="text"/> Teleprinter No.
State (that is, country) of nationality: GB		State (that is, country) of residence: GB
This person is applicant <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America		<input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box
Box No. III <b>FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>		<p>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</p> <p>CHAYEN, Naomi Esther Biological Structure and Function Section Division of Biomedical Sciences Sir Alexander Fleming Building Imperial College School of Medicine London SW7 2AZ United Kingdom</p>
		<p>This person is:</p> <p><input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (if this check-box is marked, do not fill in below.)</p>
State (that is, country) of nationality: GB		State (that is, country) of residence: GB
This person is applicant <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only		<input type="checkbox"/> the States indicated in the Supplemental Box
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.		
Box No. IV <b>AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE</b>		
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:		<input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)		<input type="text"/> Telephone No. (0115) 9552211  <input type="text"/> Facsimile No. (0115) 9552201  <input type="text"/> Teleprinter No. 37540 Potter G
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.		

**Box No.V DESIGNATION OF STATES**

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

**Regional Patent**

- AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, TR Turkey and any other State which is a Contracting State of the European Patent Convention and of the PCT
- OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

<input checked="" type="checkbox"/> AE	United Arab Emirates	<input checked="" type="checkbox"/> LC	Saint Lucia
<input checked="" type="checkbox"/> AG	Antigua and Barbuda	<input checked="" type="checkbox"/> LK	Sri Lanka
<input checked="" type="checkbox"/> AL	Albania	<input checked="" type="checkbox"/> LR	Liberia
<input checked="" type="checkbox"/> AM	Armenia	<input checked="" type="checkbox"/> LS	Lesotho
<input checked="" type="checkbox"/> AT	Austria	<input checked="" type="checkbox"/> LT	Lithuania
<input checked="" type="checkbox"/> AU	Australia	<input checked="" type="checkbox"/> LU	Luxembourg
<input checked="" type="checkbox"/> AZ	Azerbaijan	<input checked="" type="checkbox"/> LV	Lovia
<input checked="" type="checkbox"/> BA	Bosnia and Herzegovina	<input checked="" type="checkbox"/> MA	Morocco
<input checked="" type="checkbox"/> BB	Barbados	<input checked="" type="checkbox"/> MD	Republic of Moldova
<input checked="" type="checkbox"/> BG	Bulgaria	<input checked="" type="checkbox"/> MG	Madagascar
<input checked="" type="checkbox"/> BR	Brazil	<input checked="" type="checkbox"/> MK	The former Yugoslav Republic of Macedonia
<input checked="" type="checkbox"/> BY	Belarus	<input checked="" type="checkbox"/> MN	Mongolia
<input checked="" type="checkbox"/> BZ	Belize	<input checked="" type="checkbox"/> MW	Malawi
<input checked="" type="checkbox"/> CA	Canada	<input checked="" type="checkbox"/> MX	Mexico
<input checked="" type="checkbox"/> CH and LI	Switzerland and Liechtenstein	<input checked="" type="checkbox"/> MZ	Mozambique
<input checked="" type="checkbox"/> CN	China	<input checked="" type="checkbox"/> NO	Norway
<input checked="" type="checkbox"/> CO	Colombia	<input checked="" type="checkbox"/> NZ	New Zealand
<input checked="" type="checkbox"/> CR	Costa Rica	<input checked="" type="checkbox"/> PL	Poland
<input checked="" type="checkbox"/> CU	Cuba	<input checked="" type="checkbox"/> PT	Portugal
<input checked="" type="checkbox"/> CZ	Czech Republic	<input checked="" type="checkbox"/> RO	Romania
<input checked="" type="checkbox"/> DE	Germany	<input checked="" type="checkbox"/> RU	Russian Federation
<input checked="" type="checkbox"/> DK	Denmark	<input checked="" type="checkbox"/> SD	Sudan
<input checked="" type="checkbox"/> DM	Dominica	<input checked="" type="checkbox"/> SE	Sweden
<input checked="" type="checkbox"/> DZ	Algeria	<input checked="" type="checkbox"/> SG	Singapore
<input checked="" type="checkbox"/> EE	Estonia	<input checked="" type="checkbox"/> SI	Slovenia
<input checked="" type="checkbox"/> ES	Spain	<input checked="" type="checkbox"/> SK	Slovakia
<input checked="" type="checkbox"/> FI	Finland	<input checked="" type="checkbox"/> SL	Sierra Leone
<input checked="" type="checkbox"/> GB	United Kingdom	<input checked="" type="checkbox"/> TJ	Tajikistan
<input checked="" type="checkbox"/> GD	Grenada	<input checked="" type="checkbox"/> TM	Turkmenistan
<input checked="" type="checkbox"/> GE	Georgia	<input checked="" type="checkbox"/> TR	Turkey
<input checked="" type="checkbox"/> GH	Ghana	<input checked="" type="checkbox"/> TT	Trinidad and Tobago
<input checked="" type="checkbox"/> GM	Gambia	<input checked="" type="checkbox"/> TZ	United Republic of Tanzania
<input checked="" type="checkbox"/> HR	Croatia	<input checked="" type="checkbox"/> UA	Ukraine
<input checked="" type="checkbox"/> HU	Hungary	<input checked="" type="checkbox"/> UG	Uganda
<input checked="" type="checkbox"/> ID	Indonesia	<input checked="" type="checkbox"/> US	United States of America
<input checked="" type="checkbox"/> IL	Israel	<input checked="" type="checkbox"/> UZ	Uzbekistan
<input checked="" type="checkbox"/> IN	India	<input checked="" type="checkbox"/> VN	Viet Nam
<input checked="" type="checkbox"/> IS	Iceland	<input checked="" type="checkbox"/> YU	Yugoslavia
<input checked="" type="checkbox"/> JP	Japan	<input checked="" type="checkbox"/> ZA	South Africa
<input checked="" type="checkbox"/> KE	Kenya	<input checked="" type="checkbox"/> ZW	Zimbabwe
<input checked="" type="checkbox"/> KG	Kyrgyzstan	Check-boxes reserved for designating States which have become Party to the PCT after issuance of this sheet:	
<input checked="" type="checkbox"/> KP	Democratic People's Republic of Korea	<input checked="" type="checkbox"/> PH	Philippines
<input checked="" type="checkbox"/> KR	Republic of Korea	<input checked="" type="checkbox"/> EC	Ecuador
<input checked="" type="checkbox"/> KZ	Kazakhstan		

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

**Box No. VI PRIORITY CLAIM** Further priority claims are indicated in the Supplemental Box.

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		National application: Country	regional application: regional Office	international application: receiving Office
item (1) 3 April 2001	0108287.4	GB		
item (2)				
item (3)				

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): (1)

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(iii)). See Supplemental Box.

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA)  
(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA /

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)

**Box No. VIII CHECK LIST; LANGUAGE OF FILING**

This international application contains the following number of sheets:

request	:	3
description (excluding sequence listing part)	:	22
claims	:	5
abstract	:	1
drawings	:	4
sequence listing part of description	:	0
Total number of sheets	:	35

This international application is accompanied by the item(s) marked below:

1.  fee calculation sheet
2.  separate signed power of attorney
3.  copy of general power of attorney; reference number, if any:
4.  statement explaining lack of signature
5.  priority document(s) identified in Box No. VI as item(s):
6.  translation of international application into (language):
7.  separate indications concerning deposited micro-organism or other biological material
8.  nucleotide and/or amino acid sequence listing in computer readable form
9.  other (specify):

Figure of the drawings which should accompany the abstract: 2

Language of filing of the International application: English

**Box No. IX SIGNATURE OF APPLICANT OR AGENT**

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

John S Miles

1. Date of actual receipt of the purported international application:

For receiving Office use only

2. Drawings:

3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:

received:

4. Date of timely receipt of the required corrections under PCT Article 11(2):

not received:

5. International Searching Authority (if two or more are competent): ISA /

6.  Transmittal of search copy delayed until search fee is paid.

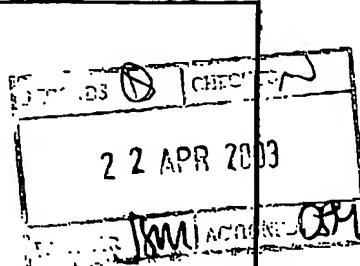
Date of receipt of the record copy by the International Bureau:

For International Bureau use only

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
**ERIC POTTER CLARKSON**  
 Attn. Miles, John S.  
 Park View House  
 58 The Ropewalk  
 Nottingham NG1 5DD  
 UNITED KINGDOM

**PCT**NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing  
(day/month/year)

17/04/2003

Applicant's or agent's file reference  
**ICOY / P26293PC**

## FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.  
**PCT/GB 02/01559**

International filing date

(day/month/year) 02/04/2002

Applicant

**IMPERIAL COLLEGE INNOVATIONS LIMITED**

1.  The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

## Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.36

For more detailed instructions, see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority  
  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL-2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Stephanie Büchler  


## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the International search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the International application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 48.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the International application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the International application is English, the letter must be in English; if the language of the International application is French, the letter must be in French.

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

**The following examples illustrate the manner in which amendments must be explained in the accompanying letter:**

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:  
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:  
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:  
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or  
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:  
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

**It must be in the language in which the international application is to be published.**

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for International preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>IC0Y / P26293PC</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB 02/ 01559</b>	International filing date (day/month/year) <b>02/04/2002</b>	(Earliest) Priority Date (day/month/year) <b>03/04/2001</b>
Applicant <b>IMPERIAL COLLEGE INNOVATIONS LIMITED</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of **6** sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
  - a. With regard to the language, the international search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.
    - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
  - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
    - contained in the international application in written form.
    - filed together with the international application in computer readable form.
    - furnished subsequently to this Authority in written form.
    - furnished subsequently to this Authority in computer readable form.
    - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
    - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
2.  Certain claims were found unsearchable (See Box I).
3.  Unity of invention is lacking (see Box II).
4. With regard to the title,
  - the text is approved as submitted by the applicant.
  - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - the text is approved as submitted by the applicant.
  - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No.
  - as suggested by the applicant
  - because the applicant failed to suggest a figure.
  - because this figure better characterizes the invention.

None of the figures.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 02/01559

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
  
  
  
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
  
  
  
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

## Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

International Application No. PCT/GB 02 01559

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

**1. Claims: 1-32**

An automated method of optimising crystallisation conditions comprising the steps of claim 1 and use of an automated liquid dispensing system for dispensing a gel-forming component and a macromolecule to be crystallised.

**2. Claims: 33-41**

A kit of parts comprising an automated liquid dispensing system and a gel-forming component.

International Application No  
PCT/GB 02/01559

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 C07K1/30 C12N15/10 C30B7/00 C30B29/58 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C07K G01N C30B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	WO 01 92293 A (ABRAHAMS JAN PIETER ;HOEDEMAEKER PHILIPPUS JACOBUS (NL); UNIVERSIT) 6 December 2001 (2001-12-06) whole document, in particular p. 2, line 3, p. 9, lines 24-27, p.15, lines 25-30, example V on pp. 22-23	1-41
A	DONG JUN ET AL: "Bound-solvent structures for microgravity-, ground control-, gel- and microbatch-grown hen egg-white lysozyme crystals at 1.8 ANG resolution." ACTA CRYSTALLOGRAPHICA SECTION D BIOLOGICAL CRYSTALLOGRAPHY, vol. 55, no. 4, April 1999 (1999-04), pages 745-752, XP009005723 ISSN: 0907-4449 the whole document ---	1-19 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the International search

9 April 2003

Date of mailing of the International search report

11.04.03

Name and mailing address of the ISA  
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Authorized officer

Lüdemann, S

International Application No

PCT/GB 02/01559

## c.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ROBERT, M.-C. ET AL: "Crystallization in gels and related methods" 1999 , OXFORD UNIVERSITY PRESS , OXFORD XP009005787 the whole document _____ US 5 705 628 A (HAWKINS TREVOR) 6 January 1998 (1998-01-06) the whole document, in particular claim 1 column 2, lines 6-12 and example 4 _____ WO 01 30499 A (PAUWELS RUDI WILFRIED JAN ;VELGHE FRANCK (BE); TIBOTEC NV (BE); BE) 3 May 2001 (2001-05-03) whole document, in particular p.2, lines 35-37 _____ WO 99 15876 A (ACLARA BIOSCIENCES INC) 1 April 1999 (1999-04-01) whole document, in particular p.14, lines 32-p.15, lines 7, p. 15, lines 35-p.16, lines 31 _____ US 4 052 320 A (JAKUBOWICZ RAYMOND F) 4 October 1977 (1977-10-04) whole document, in particular see fig. 1 _____	1-19  33-41  33-41  33-41  33,40,41
X		
X,P		
X		
X		

ERIC POTTER CLARKSON  
INTERNATIONAL SEARCH REPORT

4048

Information on patent family members

International Application No

PCT/GB 02/01559

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